

**Notice of Allowability**

Application No.

10/614,942

Examiner

Dominic E. Rego

Applicant(s)

KELLEY ET AL.

Art Unit

2618

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/29/07.
2. ☒ The allowed claim(s) is/are 1-39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 8/29/07.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeff Jacobs on 8/29/2007.

The application has been amended as follows:

In the claim:

In claim 1, The Phrase "transitioning, as triggered by the presence of the at least one condition, to at least one operational mode in which paging-related delays for the MS are reduced" in lines 5-6 have been replaced with -- transitioning, as triggered by the presence of the at least one condition, to at least one operational mode in which a period of paging-related delay for the MS is reduced, wherein the at least one operational mode comprises at least one MS mode from the group consisting of a semi-dormant mode, an unslotted mode, and a reduced slot cycle index (RSCI) mode--.

In claim 20, The Phrase "the method, wherein the at least one operational mode comprises MS modes from the group consisting of a semi-dormant mode, an unslotted mode, and a reduced slot cycle index (RSCI) mode, wherein the MS performs periodic location updates in the semi-dormant mode" in lines 1-4 have been replaced with -- The

Art Unit: 2618

method of claim 1, wherein the MS performs periodic location updates in the semi-dormant mode--.

In claim 32, The Phrase "adapted to transition, as triggered by the presence of the at least one condition, to at least one operational mode in which a period of paging-related delay for the MS is reduced" in lines 8-10 have been replaced with -- adapted to transition, as triggered by the presence of the at least one condition, to at least one operational mode in which a period of paging-related delay for the MS is reduced, wherein the at least one operational mode comprises at least one MS mode from the group consisting of a semi-dormant mode, an unslotted mode, and a reduced slot cycle index (RSCI) mode--.

In claim 33, The Phrase "the MS, wherein the at least one operational mode comprises MS modes from the group consisting of a semi-dormant mode, an unslotted mode, and a reduced slot cycle index (RSCI) mode, wherein the MS performs periodic location updates in the semi-dormant mode" in lines 1-4 have been replaced with --The MS of claim 32, wherein the MS performs periodic location updates in the Semi-dormant mode--.

(End of Amendment).

***Allowable Subject Matter***

1. Claims 1-39 are allowed.

2. The following is an examiner's statement of reasons for allowance:

**Regarding claim 1**, the prior art of record, specifically Schmidt et al. (*US Patent Application Publication #20030099214*) teaches a method of reducing paging-related delays (*paragraph 0015*) comprising:

determining by a mobile station (MS) (*Figure 1, element 118*) that at least one condition from the group consisting of a low mobility condition (*dormant state*) and an active user messaging condition (*active state*) is present for the MS (*Paragraph 0003*);  
and

Rosen et al. (*US Patent Application Publication #2003/0008657*) teaches transitioning, as triggered by the presence of the at least one condition, to at least one operational mode in which a period of paging-related delay for the MS is reduced (*See Figure 7: Rosen teaches transitioning, as triggered by the presence of the at least one condition, to at least one operational mode from Idle state to Active state in which paging-related delays for the MS are reduced; Also see Paragraphs 0105-0110*).

However, none of the prior art cited alone or in combination provides the motivation to teach wherein the at least one operational mode comprises at least one MS mode from the group consisting of a semi-dormant mode, an unslotted mode, and a reduced slot cycle index (RSCI) mode.

**Regarding claim 32**, the prior art of record, specifically Schmidt et al. (*US Patent Application Publication #20030099214*) teaches a mobile station (MS) comprising:

a transmitter; a receiver; and a processor, coupled to the transmitter and the receiver (*Figure 1, element 118 is a mobile phone which inherently comprising a transmitter for transmitting information to the base station 112, 114 and 116, a receiver for receiving information from the base station and a processor, a coupled to the transmitter and the receiver. Also see paragraphs 0014 and 0028*) adapted to determine that at least one condition from the group consisting of a low mobility condition (*dormant state*) and an active user messaging condition (*active state*) is present for the MS (*Paragraph 0003*); and

Rosen et al. (US Patent Application Publication #2003/0008657) adapted to transition, as triggered by the presence of the at least one condition, to at least one operational mode in which a period of paging-related delay for the MS is reduced (*See Figure 7: Rosen teaches transitioning, as triggered by the presence of the at least one condition, to at least one operational mode from Idle state to Active state in which paging-related delays for the MS are reduced; Also see Paragraphs 0105-0110*).

However, none of the prior art cited alone or in combination provides the motivation to teach wherein the at least one operational mode comprises at least one MS mode from the group consisting of a semi-dormant mode, an unslotted mode, and a reduced slot cycle index (RSCI) mode.

Dependent claims 2-31 and 33-39 are allowed for the same reason.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dominic E. Rego whose telephone number is 571-272-8132. The examiner can normally be reached on Monday-Friday, 8:30 am-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Dominic E. Rego  
Telephone # 571-272-8132



NAY MAUNG

**SUPERVISORY PATENT EXAMINER**